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October 29, 2020

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Executive Director
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, SC 29210

Re: Duke Energy Progress, LLC- Monthly Fuel Report
Docket Number: 2006-176-E

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of September 2020.

Sincerely,

Katie M. Brown

Katie M. Brown

Enclosure

cc: Ms. Dawn Hipp, Office of Regulatory Staff
Ms. Nanette Edwards, Office of Regulatory Staff
Mr. Jeff Nelson, Office of Regulatory Staff
Mr. Michael Seaman-Huynh, Office of Regulatory Staff
Mr. Ryder Thompson, Office of Regulatory Staff

Schedule 1

DUKE ENERGY PROGRESS
SUMMARY OF MONTHLY FUEL REPORT

Line No.	Item		SEPTEMBER 2020
1	Fuel and Fuel-related Costs excluding DERP incremental costs	$	117,509,843
	MWH sales:		
2	Total System Sales		5,850,392
3	Less intersystem sales		511,512
4	Total sales less intersystem sales		5,338,880
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)		2.2010
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)		2.2648
	Generation Mix (MWH):		
	Fossil (By Primary Fuel Type):		
7	Coal		590,947
8	Oil		636
9	Natural Gas - Combustion Turbine		93,928
10	Natural Gas - Combined Cycle		1,560,932
11	Biogas		2,277
12	Total Fossil		2,248,719
13	Nuclear		2,553,070
14	Hydro - Conventional		56,464
15	Solar Distributed Generation		18,996
16	Total MWH generation		4,877,249

Note: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
DETAILS OF FUEL AND FUEL-RELATED COSTS

Description		SEPTEMBER 2020
Fuel and Fuel-Related Costs:		
Steam Generation - Account 501		
0501110 coal consumed - steam	$	25,073,377
0501310 fuel oil consumed - steam		122,733
Total Steam Generation - Account 501		25,196,110
Nuclear Generation - Account 518		
0518100 burnup of owned fuel		15,043,404
Other Generation - Account 547		
0547000 natural gas consumed - Combustion Turbine		2,214,688
0547000 natural gas capacity - Combustion Turbine		589,529
0547000 natural gas consumed - Combined Cycle		28,670,243
0547000 natural gas capacity - Combined Cycle		12,452,304
0547106 biogas consumed - Combined Cycle		87,034
0547200 fuel oil consumed		29,572
Total Other Generation - Account 547		44,043,370
Purchased Power and Net Interchange - Account 555		
Fuel and fuel-related component of purchased power		31,612,917
Fuel and fuel-related component of DERP purchases		79,337
PURPA purchased power capacity		9,015,684
DERP purchased power capacity		21,305
Total Purchased Power and Net Interchange - Account 555		40,729,243
Less:		
Fuel and fuel-related costs recovered through intersystem sales		8,501,819
Solar Integration Charge		(12,964)
Total Fuel Credits - Accounts 447/456		8,488,855
Total Costs Included in Base Fuel Component	$	116,523,271
Environmental Costs		
0509030, 0509212, 0557451 emission allowance expense	$	3,485
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense	$	1,078,911
Emission Allowance Gains		-
Less reagents expense recovered through intersystem sales - Account 447		64,069
Less emissions expense recovered through intersystem sales - Account 447		31,755
Total Costs Included in Environmental Component		986,572
Fuel and Fuel-related Costs excluding DERP incremental costs	$	117,509,843
DERP Incremental Costs		334,073
Total Fuel and Fuel-related Costs	$	117,843,916

Notes:
Detail amounts may not add to totals shown due to rounding.
DERP details are presented on Page 2.

DUKE ENERGY PROGRESS
DETAILS OF FUEL AND FUEL-RELATED COSTS

Description		SEPTEMBER 2020
DERP Avoided Costs (Total Capacity and Energy)		
Purchased Power Agreements	$	9,018
Shared Solar Program		569
Total DERP Avoided Costs		9,586
DERP Incremental Costs		
Purchased Power Agreements		7,413
DERP NEM Incentive		168,922
Solar Rebate Program - Amortization		49,595
Solar Rebate Program - Carrying Costs		40,794
Shared Solar Program		8,163
NEM Avoided Capacity Costs		415
NEM Meter Costs		10,812
General and Administrative Expenses		47,910
Interest on under-collection due to cap		49
Total DERP Incremental Costs	$	334,073

Notes:
Detail amounts may not add to totals shown due to rounding.
All amounts represent SC retail.

DUKE ENERGY PROGRESS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA

SEPTEMBER 2020

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	$	$	mWh	Fuel $	Non-fuel $
Broad River Energy, LLC.	$ 7,460,750	$ 5,237,663	35,267	$ 2,223,087	
City of Fayetteville	1,023,666	1,007,000	-	16,666	
Haywood EMC	28,550	28,550	-	-	
NCEMC	2,342,231	2,016,065	8,032	326,166	
PJM Interconnection, LLC.	2,225	-	-	2,225	
Southern Company Services	3,422,140	687,323	113,970	2,734,817	
DE Carolinas - Native Load Transfer	489,972	-	26,545	490,209	$ (238)
DE Carolinas - Native Load Transfer Benefit	53,871	-	-	53,871	
DE Carolinas - Fees	(1,578)	-	-	(1,578)	
Energy Imbalance	12,857	-	655	12,186	671
Generation Imbalance	769	-	43	500	269
	$ 14,835,453	**$ 8,976,601**	**184,512**	**$ 5,858,149**	**$ 702**
Act 236 PURPA Purchases					
Renewable Energy	$ 17,518,741	-	234,788	$ 17,518,741	-
DERP Qualifying Facilities	109,904	-	2,741	109,904	-
Other Qualifying Facilities	17,251,711.00	-	285,298	17,251,711	-
	$ 34,880,356	**-**	**522,827**	**$ 34,880,356**	**-**
Total Purchased Power	**$ 49,715,809**	**$ 8,976,601**	**707,339**	**$ 40,738,505**	**$ 702**

NOTE: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
INTERSYSTEM SALES*
SOUTH CAROLINA

SEPTEMBER 2020

	Total	Capacity	Non-capacity		
Sales	$	$	mWh	Fuel $	Non-fuel $
Utilities:					
DE Carolinas - Emergency	$ 44,900	-	392	$ 27,389	$ 17,511
DE Carolinas - As Available Capacity	7,014	$ 7,014	-	-	-
Market Based:					
NCEMC Purchase Power Agreement	$ 971,961	$ 652,500	10,859	$ 227,813	$ 91,648
PJM Interconnection, LLC.	57,793	-	2,688	50,626	7,167
Other:					
DE Carolinas - Native Load Transfer Benefit	$ 757,128	-	-	$ 757,128	-
DE Carolinas - Native Load Transfer	8,052,114	-	497,570	7,534,687	$ 517,427
Generation Imbalance	-	-	3	-	-
Total Intersystem Sales	**$ 9,890,910**	**$ 659,514**	**511,512**	**$ 8,597,643**	**$ 633,753**

* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
SEPTEMBER 2020

Line No.			Total Residential	General Service Non-Demand	Demand	Lighting	Total
1	Actual System kWh sales	Input					5,338,880,459
2	DERP Net Metered kWh generation	Input					2,544,885
3	Adjusted System kWh sales	L1 + L2					5,341,425,344
4	Actual S.C. Retail kWh sales	Input	190,130,510	26,354,172	285,817,076	6,225,319	508,527,077
5	DERP Net Metered kWh generation	Input	1,367,528	29,566	1,147,791		2,544,885
6	Adjusted S.C. Retail kWh sales	L4 + L5	191,498,038	26,383,738	286,964,867	6,225,319	511,071,962
7	Actual S.C. Demand units (kw)	L32 / 31b *100			669,283		
	Base fuel component of recovery - non-capacity						
8	Incurred System base fuel - non-capacity expense	Input					$94,365,112
9	Eliminate avoided fuel benefit of S.C. net metering	Input					$57,576
10	Adjusted Incurred System base fuel - non-capacity expense	L8 + L9					$94,422,688
11	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L10 / L3 * 100					1.768
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100	$3,385,194	$466,397	$5,072,802	$110,048	$9,034,441
13	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input	($30,473)	($3,006)	($24,097)	$0	($57,576)
14	S.C. Retail portion of incurred system expense	L12 + L13	$3,354,721	$463,391	$5,048,705	$110,048	$8,976,865
15	Billed base fuel - non-capacity rate (¢/kWh) - Note 1	Input	1.887	1.887	1.887	1.887	1.887
16	Billed base fuel - non-capacity revenue	L4 * L15 /100	$3,588,072	$497,303	$5,393,368	$117,472	$9,596,215
17	DERP NEM incentive - fuel component	Input	$2,537	$250	$2,006	$0	$4,793
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16 + L17	$3,590,609	$497,553	$5,395,374	$117,472	$9,601,008
19	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L14 - L18	($235,888)	($34,162)	($346,669)	($7,424)	($624,143)
20	Adjustment	Input					
21	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L19 + L20	($235,888)	($34,162)	($346,669)	($7,424)	($624,143)
	Base fuel component of recovery - capacity						
22a	Incurred base fuel - capacity rates by class (¢/kWh)	L23 / L4 * 100	0.585	0.416			
22b	Incurred base fuel - capacity rate (¢/kW)	L23 / L7 * 100			131		
23	Incurred S.C. base fuel - capacity expense	Input	$1,111,970	$109,691	$879,313		$2,100,974
24a	Billed base fuel - capacity rates by class (¢/kWh) - Note 2	Input	0.528	0.358			
24b	Billed base fuel - capacity rate (¢/kW)	Input			108		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 /100	$1,004,132	$94,348	$721,934	$0	$1,820,414
26	S.C. base fuel - capacity (over)/under recovery [See footnote]	L23 - L25	$107,838	$15,343	$157,379	$0	$280,560
27	Adjustment	Input					
28	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L26 + L27	$107,838	$15,343	$157,379	$0	$280,560
	Environmental component of recovery						
29a	Incurred environmental rates by class (¢/kWh)	L30 / L4 * 100	0.026	0.019			
29b	Incurred environmental rate (¢/kW)	L30 / L7 * 100			6		
30	Incurred S.C. environmental expense	Input	$49,735	$4,906	$39,329		$93,970
31a	Billed environmental rates by class (¢/kWh) - Note 3	Input	0.021	0.012			
31b	Billed environmental rate (¢/kW)	Input			6		
32	Billed S.C. environmental revenue	L31a * L4 /100	$39,637	$3,163	$40,157		$82,957
33	S.C. environmental (over)/under recovery [See footnote]	L30 - L32	$10,098	$1,743	($828)	$0	$11,013
34	Adjustment	Input					
35	Total S.C. environmental (over)/under recovery [See footnote]	L33 + L34	$10,098	$1,743	($828)	$0	$11,013
	Distributed Energy Resource Program component of recovery: avoided costs						
36a	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	L37 / L4 * 100	0.003	0.002			
36b	Incurred S.C. DERP avoided cost rates by class (¢/kW)	L37 / L7 * 100			1		
37	Incurred S.C. DERP avoided cost expense	Input	$5,074	$500	$4,012		$9,586
38a	Billed S.C. DERP avoided cost rates by class (¢/kWh) - Note 4	Input	0.002	0.001			
38b	Billed S.C. DERP avoided cost rates by class (¢/kW)	Input			2		
39	Billed S.C. DERP avoided cost revenue	L38a * L4 /100	$3,775	$264	$13,352		$17,391
40	S.C. DERP avoided cost (over)/under recovery [See footnote]	L37 - L39	$1,299	$236	($9,340)	$0	($7,805)
41	Adjustment	Input					
42	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L40 + L41	$1,299	$236	($9,340)	$0	($7,805)
43	Total (over)/under recovery [See footnote]	L21 + L28 + L35 + L42	($116,653)	($16,840)	($199,458)	($7,424)	($340,375)

Cumulative (over) / under recovery - BASE FUEL NON-CAPACITY	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2020	$8,184,894					
March 2020 - actual	6,703,728	($500,048)	($60,906)	($900,533)	($19,679)	($1,481,166)
April 2020 - actual	4,364,676	(697,174)	(89,196)	(1,518,585)	(34,097)	(2,339,052)
May 2020 - actual	4,577,719	65,636	6,313	137,505	3,589	213,043
June 2020 - actual	4,478,233	(30,783)	(6,228)	(61,363)	(1,112)	(99,486)
July 2020 - actual	6,715,676	792,265	102,353	1,317,188	25,637	2,237,443
August 2020 - actual	8,724,125	679,243	87,051	1,222,797	19,358	2,008,449
September 2020 - actual	8,099,982	(235,888)	(34,162)	(346,669)	(7,424)	(624,143)
October 2020 - forecast	6,422,940	(499,128)	(82,935)	(1,069,520)	(25,459)	(1,677,042)
November 2020 - forecast	6,537,445	35,229	5,542	72,006	1,728	114,505
December 2020 - forecast	7,234,562	247,673	31,035	408,609	9,800	697,117
January 2021 - forecast	7,230,982	(1,448)	(149)	(1,937)	(46)	(3,580)
February 2021 - forecast	7,077,715	(59,835)	(6,508)	(84,895)	(2,029)	(153,267)
March 2021 - forecast	6,883,685	(70,241)	(8,803)	(112,298)	(2,688)	(194,030)
April 2021 - forecast	5,535,692	(425,476)	(66,490)	(836,015)	(20,012)	(1,347,993)
May 2021 - forecast	4,888,289	(194,435)	(32,697)	(410,451)	(9,820)	(647,403)
June 2021 - forecast	$ 4,198,486	(221,168)	(33,738)	(424,799)	(10,098)	($689,803)

Cumulative (over) / under recovery - BASE FUEL CAPACITY	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2020	$2,280,576					
March 2020 - actual	2,080,723	($542,342)	($57,884)	$400,373	$0	($199,853)
April 2020 - actual	2,576,867	198,269	22,469	275,406	0	496,144
May 2020 - actual	3,180,854	263,866	26,727	313,394	0	603,987
June 2020 - actual	3,332,298	(50,274)	(6,671)	208,389	0	151,444
July 2020 - actual	3,922,473	144,961	17,783	427,431	0	590,175
August 2020 - actual	4,544,592	227,860	33,406	360,853	0	622,119
September 2020 - actual	4,825,152	107,838	15,343	157,379	0	280,560
October 2020 - forecast	5,028,320	231,066	16,005	(43,903)	0	203,168
November 2020 - forecast	5,168,196	179,745	15,444	(55,313)	0	139,876
December 2020 - forecast	4,799,231	(139,040)	3,578	(233,503)	0	(368,965)
January 2021 - forecast	4,153,278	(407,272)	567	(239,248)	0	(645,953)
February 2021 - forecast	3,640,826	(332,621)	1,077	(180,908)	0	(512,452)
March 2021 - forecast	3,541,506	(13,020)	18,349	(104,649)	0	(99,320)
April 2021 - forecast	3,751,159	143,282	13,769	52,602	0	209,653
May 2021 - forecast	3,918,676	209,289	14,188	(55,960)	0	167,517
June 2021 - forecast	$ 3,647,119	6,443	2,092	(280,092)	0	($271,557)

Cumulative (over) / under recovery - ENVIRONMENTAL	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2020	($86,728)					
March 2020 - actual	(234,402)	($97,924)	($9,094)	($40,656)	$0	($147,674)
April 2020 - actual	(399,194)	(93,739)	(9,066)	(61,987)	0	(164,792)
May 2020 - actual	(553,737)	(87,410)	(8,677)	(58,456)	0	(154,543)
June 2020 - actual	(605,586)	(41,045)	(4,402)	(6,402)	0	(51,849)
July 2020 - actual	(555,502)	13,176	1,515	35,393	0	50,084
August 2020 - actual	(382,799)	93,287	10,247	69,169	0	172,703
September 2020 - actual	(371,786)	10,098	1,743	(828)	0	11,013
October 2020 - forecast	(393,584)	595	320	(22,713)	0	(21,798)
November 2020 - forecast	(388,071)	13,932	1,771	(10,190)	0	5,513
December 2020 - forecast	(293,085)	60,081	7,100	27,805	0	94,986
January 2021 - forecast	(138,140)	86,896	10,674	57,375	0	154,945
February 2021 - forecast	43,267	100,632	11,761	69,014	0	181,407
March 2021 - forecast	91,618	34,711	4,695	8,945	0	48,351
April 2021 - forecast	27,942	(26,550)	(2,141)	(34,985)	0	(63,676)
May 2021 - forecast	(41,755)	(25,245)	(2,248)	(42,204)	0	(69,697)
June 2021 - forecast	$ (68,550)	(7)	580	(27,368)	0	($26,795)

Cumulative (over) / under recovery - DERP AVOIDED COSTS	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2020	$12,641					
March 2020 - actual	11,876	($2,864)	($414)	$2,513	$0	($765)
April 2020 - actual	12,921	(964)	(203)	2,212	0	1,045
May 2020 - actual	16,781	603	(55)	3,312	0	3,860
June 2020 - actual	32,685	6,591	490	8,823	0	15,904
July 2020 - actual	32,855	1,192	62	(1,084)	0	170
August 2020 - actual	30,362	3,988	534	(7,015)	0	(2,493)
September 2020 - actual	22,557	1,299	236	(9,340)	0	(7,805)
October 2020 - forecast	14,475	3,057	362	(11,501)	0	(8,082)
November 2020 - forecast	6,984	2,906	357	(10,754)	0	(7,491)
December 2020 - forecast	(3,298)	1,930	335	(12,547)	0	(10,282)
January 2021 - forecast	(14,530)	863	318	(12,413)	0	(11,232)
February 2021 - forecast	(24,139)	1,346	341	(11,296)	0	(9,609)
March 2021 - forecast	(34,020)	2,055	357	(12,293)	0	(9,881)
April 2021 - forecast	(39,020)	3,064	381	(8,445)	0	(5,000)
May 2021 - forecast	(44,636)	3,996	451	(10,063)	0	(5,616)
June 2021 - forecast	$ (56,292)	2,173	305	(14,134)	0	($11,656)

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
SEPTEMBER 2020

Line No.			Residential	Commercial	Industrial	Total
Distributed Energy Resource Program component of recovery: incremental costs						
44	Incurred S.C. DERP incremental expense	Input	$176,813	$93,373	$63,887	$334,073
45	Billed S.C. DERP incremental rates by account ($/account)	Input	1.00	3.67	99.50	
46	Billed S.C. DERP incremental revenue	Input	$140,496	$ 119,358	$ 26,099	$285,953
47	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L46	36,317	($25,985)	$37,788	$48,120
48	Adjustment	Input				
49	Total S.C. DERP incremental (over)/under recovery [See footnote]	L47 + L48	$36,317	($25,985)	$37,788	$48,120

Cumulative (over) / under recovery	Cumulative	Total
Balance ending February 2020	$45,020	
March 2020 - actual	22,698	($22,322)
April 2020 - actual	19,428	(3,270)
May 2020 - actual	14,695	(4,733)
June 2020 - actual	25,056	10,361
July 2020 - actual	76,859	51,803
August 2020 - actual	98,892	22,033
September 2020 - actual	147,012	48,120
October 2020 - forecast	258,422	111,410
November 2020 - forecast	378,151	119,728
December 2020 - forecast	505,177	127,026
January 2021 - forecast	636,594	131,418
February 2021 - forecast	767,987	131,393
March 2021 - forecast	899,486	131,499
April 2021 - forecast	1,031,354	131,868
May 2021 - forecast	1,163,469	132,115
June 2021 - forecast	$ 1,295,656	$132,187

Notes:
Detail amounts may not recalculate due to percentages presented as rounded.
Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts.
Under collections, or regulatory assets, are shown as positive amounts.

_/1 Total residential billed fuel non-capacity rate is a composite rate reflecting the 7/1/20 approved residential rate of 1.901 and RECD 5% discount.
_/2 Total residential billed fuel capacity rate is a composite rate reflecting the 7/1/20 approved residential rate of .532 and RECD 5% discount.
_/3 Total residential billed environmental rate is a composite rate reflecting the 7/1/20 approved residential rate of .021 and RECD 5% discount.
_/4 Total residential billed DERP avoided capacity rate is a composite rate reflecting the 7/1/20 approved residential rate of .002 and RECD 5% discount.

Description	Mayo Steam	Roxboro Steam	Asheville CC/CT	Smith Energy Complex CC/CT	Sutton CC/CT	Lee CC	Blewett CT
Cost of Fuel Purchased ($)							
Coal	$180,308	$19,355,813	-	-	-	-	-
Oil	81,190	139,969	$929	-	-	-	-
Gas - CC	-	-	5,768,978	$16,174,819	$6,020,832	$13,157,918	-
Gas - CT	-	-	263,191	1,828,840	288,178	-	-
Biogas	-	-	-	438,130	-	-	-
Total	$261,498	$19,495,782	$6,033,098	$18,441,789	$6,309,010	$13,157,918	-
Average Cost of Fuel Purchased (¢/MBTU)							
Coal	-	262.38	-	-	-	-	-
Oil	1,131.10	1,134.64	-	-	-	-	-
Gas - CC	-	-	324.40	312.05	605.79	360.60	-
Gas - CT	-	-	397.19	350.69	582.61	-	-
Biogas	-	-	-	2,788.15	-	-	-
Weighted Average	INF.	263.83	327.02	322.37	604.69	360.60	-
Cost of Fuel Burned ($)							
Coal	$1,540,597	$23,532,780	-	-	-	-	-
Oil - CC	-	-	-	$100	-	-	-
Oil - Steam/CT	26,936	95,798	-	-	-	-	$8,970
Gas - CC	-	-	$5,768,978	16,174,819	$6,020,832	$13,157,918	-
Gas - CT	-	-	263,191	1,828,840	288,178	-	-
Biogas	-	-	-	438,130	-	-	-
Nuclear	-	-	-	-	-	-	-
Total	$1,567,533	$23,628,578	$6,032,169	$18,441,889	$6,309,010	$13,157,918	$8,970
Average Cost of Fuel Burned (¢/MBTU)							
Coal	357.14	337.20	-	-	-	-	-
Oil - CC	-	-	-	1,666.67	-	-	-
Oil - Steam/CT	1,324.29	1,270.87	-	-	-	-	1,682.89
Gas - CC	-	-	324.40	312.05	605.79	360.60	-
Gas - CT	-	-	397.19	350.69	582.61	-	-
Biogas	-	-	-	2,788.15	-	-	-
Nuclear	-	-	-	-	-	-	-
Weighted Average	361.68	338.20	327.02	322.37	604.69	360.60	1,682.89
Average Cost of Generation (¢/kWh)							
Coal	5.89	4.17	-	-	-	-	-
Oil - CC	-	-	-	10.00	-	-	-
Oil - Steam/CT	21.83	17.53	-	-	-	-	-
Gas - CC	-	-	2.19	2.36	4.47	2.75	-
Gas - CT	-	-	5.67	2.50	5.88	-	-
Biogas	-	-	-	19.24	-	-	-
Nuclear	-	-	-	-	-	-	-
Weighted Average	5.96	4.18	2.25	2.43	4.52	2.75	-
Burned MBTU's							
Coal	431,367	6,978,929	-	-	-	-	-
Oil - CC	-	-	-	6	-	-	-
Oil - Steam/CT	2,034	7,538	-	-	-	-	533
Gas - CC	-	-	1,778,347	5,183,447	993,881	3,648,932	-
Gas - CT	-	-	66,263	521,499	49,463	-	-
Biogas	-	-	-	15,714	-	-	-
Nuclear	-	-	-	-	-	-	-
Total	433,401	6,986,467	1,844,610	5,720,666	1,043,344	3,648,932	533
Net Generation (mWh)							
Coal	26,161	564,786	-	-	-	-	-
Oil - CC	-	-	-	1	-	-	-
Oil - Steam/CT	123	547	-	-	-	-	(7)
Gas - CC	-	-	262,972	684,530	134,658	478,772	-
Gas - CT	-	-	4,645	73,208	4,905	-	-
Biogas	-	-	-	2,277	-	-	-
Nuclear	-	-	-	-	-	-	-
Hydro (Total System)							
Solar (Total System)							
Total	26,284	565,333	267,617	760,015	139,563	478,772	(7)
Cost of Reagents Consumed ($)							
Ammonia	-	$145,940	-	$17,043	-	-	-
Limestone	$56,644	578,166	-	-	-	-	-
Re-emission Chemical	-	-	-	-	-	-	-
Sorbents	24,223	262,295	-	-	-	-	-
Urea	-	-	-	-	-	-	-
Total	$80,867	$986,401	-	$17,043	-	-	-

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

Description	Darlington CT	Wayne County CT	Weatherspoon CT	Brunswick Nuclear	Harris Nuclear	Robinson Nuclear	Current Month	Total 12 ME SEPTEMBER 2020
Cost of Fuel Purchased ($)								
Coal	-	-	-	-	-	-	$19,536,121	$247,200,148
Oil	$1,763	$238	-	-	-	-	224,089	10,361,615
Gas - CC	-	-	-	-	-	-	41,122,547	521,592,278
Gas - CT	23,626	400,358	$24	-	-	-	2,804,217	69,060,432
Biogas	-	-	-	-	-	-	438,130	4,080,267
Total	$25,389	$400,596	$24	-	-	-	$64,125,104	$852,294,740
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	-	-	264.82	372.41
Oil	-	-	-	-	-	-	1,148.35	1,431.76
Gas - CC	-	-	-	-	-	-	354.36	362.93
Gas - CT	398.82	301.73	-	-	-	-	361.44	328.60
Biogas	-	-	-	-	-	-	2,788.15	2,778.94
Weighted Average	428.58	301.91	-	-	-	-	323.98	367.46
Cost of Fuel Burned ($)								
Coal	-	-	-	-	-	-	$25,073,377	$264,845,558
Oil - CC	-	-	-	-	-	-	100	751,417
Oil - Steam/CT	$1,165	-	$19,336	-	-	-	152,205	9,547,033
Gas - CC	-	-	-	-	-	-	41,122,547	521,592,278
Gas - CT	23,626	$400,358	24	-	-	-	2,804,217	69,060,432
Biogas	-	-	-	-	-	-	438,130	4,080,267
Nuclear	-	-	-	$7,766,379	$4,081,616	$3,195,409	15,043,404	173,500,736
Total	$24,791	$400,358	$19,360	$7,766,379	$4,081,616	$3,195,409	$84,633,979	$1,043,377,721
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	-	-	338.36	362.22
Oil - CC	-	-	-	-	-	-	1,666.67	1,554.22
Oil - Steam/CT	-	-	1,590.13	-	-	-	1,344.45	1,514.00
Gas - CC	-	-	-	-	-	-	354.36	362.93
Gas - CT	398.82	301.73	-	-	-	-	361.44	328.60
Biogas	-	-	-	-	-	-	2,788.15	2,778.94
Nuclear	-	-	-	56.44	56.40	55.67	56.26	56.79
Weighted Average	418.48	301.73	1,592.11	56.44	56.40	55.67	181.79	191.74
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	-	-	4.24	3.99
Oil - CC	-	-	-	-	-	-	10.00	15.37
Oil - Steam/CT	-	-	-	-	-	-	23.97	21.96
Gas - CC	-	-	-	-	-	-	2.63	2.63
Gas - CT	9.76	3.66	-	-	-	-	2.99	3.68
Biogas	-	-	-	-	-	-	19.24	19.85
Nuclear	-	-	-	0.60	0.58	0.57	0.59	0.59
Weighted Average	10.24	3.66	-	0.60	0.58	0.57	1.74	1.77
Burned MBTU's								
Coal	-	-	-	-	-	-	7,410,296	73,117,699
Oil - CC	-	-	-	-	-	-	6	48,347
Oil - Steam/CT	-	-	1,216	-	-	-	11,321	630,584
Gas - CC	-	-	-	-	-	-	11,604,607	143,716,564
Gas - CT	5,924	132,687	-	-	-	-	775,836	21,016,543
Biogas	-	-	-	-	-	-	15,714	146,828
Nuclear	-	-	-	13,760,828	7,236,799	5,739,672	26,737,299	305,500,198
Total	5,924	132,687	1,216	13,760,828	7,236,799	5,739,672	46,555,079	544,176,763
Net Generation (mWh)								
Coal	-	-	-	-	-	-	590,947	6,632,024
Oil - CC	-	-	-	-	-	-	1	4,889
Oil - Steam/CT	-	-	(28)	-	-	-	635	43,477
Gas - CC	-	-	-	-	-	-	1,560,932	19,811,517
Gas - CT	242	10,928	-	-	-	-	93,928	1,878,613
Biogas	-	-	-	-	-	-	2,277	20,556
Nuclear	-	-	-	1,294,342	702,747	555,981	2,553,070	29,400,167
Hydro (Total System)							56,464	754,200
Solar (Total System)							18,996	243,911
Total	242	10,928	(28)	1,294,342	702,747	555,981	4,877,249	58,789,355
Cost of Reagents Consumed ($)								
Ammonia	-	-	-	-	-	-	$162,983	$1,701,036
Limestone	-	-	-	-	-	-	634,810	8,133,533
Re-emission Chemical	-	-	-	-	-	-	-	-
Sorbents	-	-	-	-	-	-	286,518	2,906,959
Urea	-	-	-	-	-	-	-	194,513
Total	-	-	-	-	-	-	$1,084,311	$12,936,041

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
SEPTEMBER 2020

Description	Mayo	Roxboro	Asheville	Smith Energy Complex	Sutton	Lee	Blewett
Coal Data:							
Beginning balance	418,171	619,971	-	-	-	-	-
Tons received during period	-	292,974	-	-	-	-	-
Inventory adjustments	-	-	-	-	-	-	-
Tons burned during period	17,212	278,011	-	-	-	-	-
Ending balance	400,959	634,934	-	-	-	-	-
MBTUs per ton burned	25.06	25.10	-	-	-	-	-
Cost of ending inventory ($/ton)	89.51	84.63	-	-	-	-	-
Oil Data:							
Beginning balance	262,467	411,284	4,454,272	7,957,949	2,592,206	-	748,667
Gallons received during period	52,012	89,391	-	-	-	-	-
Miscellaneous use and adjustments	(238)	(7,429)	-	-	-	-	-
Gallons burned during period	14,799	54,600	-	43	-	-	3,792
Ending balance	299,442	438,646	4,454,272	7,957,906	2,592,206	-	744,875
Cost of ending inventory ($/gal)	1.82	1.75	2.09	2.33	2.80	-	2.37
Natural Gas Data:							
Beginning balance	-	-	-	-	-	-	-
MCF received during period	-	-	1,785,211	5,522,477	1,009,212	3,532,409	-
MCF burned during period	-	-	1,785,211	5,522,477	1,009,212	3,532,409	-
Ending balance	-	-	-	-	-	-	-
Biogas Data:							
Beginning balance	-	-	-	-	-	-	-
MCF received during period	-	-	-	15,209	-	-	-
MCF burned during period	-	-	-	15,209	-	-	-
Ending balance	-	-	-	-	-	-	-
Limestone/Lime Data:							
Beginning balance	10,975	78,407	-	-	-	-	-
Tons received during period	1,947	(1,641)	-	-	-	-	-
Inventory adjustments	-	-	-	-	-	-	-
Tons consumed during period	1,135	13,035	-	-	-	-	-
Ending balance	11,787	63,731	-	-	-	-	-
Cost of ending inventory ($/ton)	50.51	41.88	-	-	-	-	-

Notes:
Detail amounts may not add to totals shown due to rounding.
Schedule excludes in-transit, terminal and tolling agreement activity.
Gas is burned as received; therefore, inventory balances are not maintained.
The oil inventory data for Wayne reflects the common usage of the oil tank used for both Wayne and Lee units.

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
SEPTEMBER 2020

Description	Darlington	Wayne County	Weatherspoon	Brunswick	Harris	Robinson	Current Month	Total 12 ME September 2020
Coal Data:								
Beginning balance	-	-	-	-	-	-	1,038,142	1,322,022
Tons received during period	-	-	-	-	-	-	292,974	2,633,113
Inventory adjustments	-	-	-	-	-	-	-	32,728
Tons burned during period	-	-	-	-	-	-	295,223	2,912,810
Ending balance	-	-	-	-	-	-	1,035,893	1,035,893
MBTUs per ton burned	-	-	-	-	-	-	25.10	25.10
Cost of ending inventory ($/ton)	-	-	-	-	-	-	86.52	86.52
Oil Data:								
Beginning balance	10,033,540	11,144,965	562,781	131,896	261,972	70,540	38,632,539	38,598,326
Gallons received during period	-	-	-	-	-	-	141,403	5,244,169
Miscellaneous use and adjustments	-	-	-	-	-	-	(7,667)	(131,623)
Gallons burned during period	487	-	8,685	6,829	-	-	89,235	5,033,832
Ending balance	10,033,053	11,144,965	554,096	125,067	261,972	70,540	38,677,040	38,677,040
Cost of ending inventory ($/gal)	2.39	2.40	2.23	2.31	2.31	2.31	2.36	2.36
Natural Gas Data:								
Beginning balance	-	-	-	-	-	-	-	-
MCF received during period	5,751	128,657	-	-	-	-	11,983,717	159,436,861
MCF burned during period	5,751	128,657	-	-	-	-	11,983,717	159,436,861
Ending balance	-	-	-	-	-	-	-	-
Biogas Data:								
Beginning balance	-	-	-	-	-	-	-	-
MCF received during period	-	-	-	-	-	-	15,209	142,092
MCF burned during period	-	-	-	-	-	-	15,209	142,092
Ending balance	-	-	-	-	-	-	-	-
Limestone/Lime Data:								
Beginning balance	-	-	-	-	-	-	89,382	98,779
Tons received during period	-	-	-	-	-	-	306	149,078
Inventory adjustments	-	-	-	-	-	-	-	5,162
Tons consumed during period	-	-	-	-	-	-	14,170	177,501
Ending balance	-	-	-	-	-	-	75,518	75,518
Cost of ending inventory ($/ton)	-	-	-	-	-	-	43.23	43.23

Schedule 7

DUKE ENERGY PROGRESS

ANALYSIS OF COAL PURCHASED

SEPTEMBER 2020

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
MAYO	SPOT	-	-	-
	CONTRACT	-	-	-
	FIXED TRANSPORTATION/ADJUSTMENTS	-	$ 180,308	-
	TOTAL	-	180,308	-
ROXBORO	SPOT	-	-	-
	CONTRACT	292,974	18,703,233	63.84
	FIXED TRANSPORTATION/ADJUSTMENTS	-	652,580	-
	TOTAL	292,974	19,355,813	66.07
ALL PLANTS	SPOT	-	-	-
	CONTRACT	292,974	18,703,233	63.84
	FIXED TRANSPORTATION/ADJUSTMENTS	-	832,888	-
	TOTAL	292,974	$ 19,536,121	66.68

Schedule 8

DUKE ENERGY PROGRESS

ANALYSIS OF COAL QUALITY RECEIVED

SEPTEMBER 2020

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
MAYO	-	-	-	-
ROXBORO	7.12	9.22	12,590	1.73

DUKE ENERGY PROGRESS
ANALYSIS OF OIL PURCHASED
SEPTEMBER 2020

	MAYO	ROXBORO
VENDOR	Greensboro Tank Farm	Greensboro Tank Farm
SPOT/CONTRACT	Contract	Contract
SULFUR CONTENT %	0	0
GALLONS RECEIVED	52,012	89,391
TOTAL DELIVERED COST	$ 81,190	$ 139,969
DELIVERED COST/GALLON	$ 1.56	$ 1.57
BTU/GALLON	138,000	138,000

Freight cost adjustments for Asheville, Darlington and Wayne County are excluded.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
October, 2019 - September, 2020
Nuclear Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Brunswick 1	**6,910,319**	**938**	**83.87**	**82.47**
Brunswick 2	**8,142,227**	**932**	**99.46**	**98.84**
Harris 1	**7,491,661**	**964**	**88.47**	**87.08**
Robinson 2	**6,855,960**	**755**	**103.45**	**99.97**

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
October, 2019 through September, 2020
Combined Cycle Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,197,817	225	60.61	79.76
Lee Energy Complex	1B	1,233,821	227	61.88	82.04
Lee Energy Complex	1C	1,216,189	228	60.73	79.66
Lee Energy Complex	ST1	2,347,535	379	70.51	87.92
Lee Energy Complex	Block Total	5,995,362	1,059	64.45	83.15
Richmond County CC	7	1,015,508	194	59.59	82.15
Richmond County CC	8	997,571	194	58.54	81.63
Richmond County CC	ST4	1,163,480	182	72.78	90.07
Richmond County CC	9	1,328,873	216	70.04	79.37
Richmond County CC	10	1,341,852	216	70.72	79.17
Richmond County CC	ST5	1,752,548	248	80.45	88.78
Richmond County CC	Block Total	7,599,832	1,250	69.22	83.54
Sutton Energy Complex	1A	1,212,604	224	61.63	76.98
Sutton Energy Complex	1B	1,207,071	224	61.35	74.64
Sutton Energy Complex	ST1	1,506,367	271	63.28	83.59
Sutton Energy Complex	Block Total	3,926,042	719	62.16	78.74
Asheville CC	ACC CT5	838,514	188	50.71	79.17
Asheville CC	ACC CT7	804,269	188	48.64	86.24
Asheville CC	ACC ST6	389,777	92	48.36	74.54
Asheville CC	ACC ST8	283,167	92	35.13	86.34
Asheville CC	Block Total	2,315,727	560	47.08	81.98

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
October, 2019 through September, 2020

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Mayo 1	852,959	746	13.02	64.67
Roxboro 2	1,337,577	673	22.63	54.29
Roxboro 3	2,157,860	698	35.19	80.39
Roxboro 4	1,559,895	711	24.98	63.32

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
October, 2019 through September, 2020
Other Cycling Steam Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Asheville	1	118,787	192	7.04	31.98
Asheville	2	143,692	192	8.52	28.87
Roxboro	1	490,100	380	14.68	55.97

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
October, 2019 through September, 2020
Combustion Turbine Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Asheville CT	309,758	351	94.38
Blewett CT	-678	68	96.02
Darlington CT	4,873	776	60.57
Richmond County CT	1,332,272	934	91.20
Sutton Fast Start CT	98,937	98	93.82
Wayne County CT	148,299	963	92.99
Weatherspoon CT	-216	164	85.88

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data

Twelve Month Summary
October, 2019 through September, 2020
Hydroelectric Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Blewett	564	27.0	0.50
Marshall	-307	4.0	4.49
Tillery	253,880	84.0	88.96
Walters	500,062	113.0	64.16

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.